



PICNICS Program Symposium

July 30th, 2024

**Sugihara 252
NDSU Campus**
Organizers:
**Dr. Mukund Sibi
Dr. Zhongyu Yang**

NDSU NORTH DAKOTA
STATE UNIVERSITY

Event Program

11:30 am - 1 pm

NDSU Memorial Union, Prairie Rose Room

Introduction to PICNICS

Dr. Mukund Sibi

Professor, Chemistry and Biochemistry

Welcome Remarks and Presentation of
Certificates

President Cook

President, North Dakota State University

Ending Remarks

Dr. Greg Cook

Department Chair, Chemistry and Biochemistry

Lunch

Event Program

1:15 - 4 pm

Presentations in Sugihara Hall 252

1:15 pm

Discovery of New Reactions for Hydrazine Transformations by Ariel Bahn (Davies High School)

Student Mentors: Benjamin LeBeau and Mahima Murali

Faculty Mentors: Professor Pinjing Zhao

1:30 pm

Exploring the Effects of pH on the Stability of Metal-Organic Frameworks (MOFs) by Gu Bu (Fargo North High School)

Student Mentor: Zoe Armstrong

Faculty Mentor: Professor Zhongyu Yang

1:45 pm

Surface Activity of Amylose-Inclusion Complexes by Alexander Dirk (Fargo North High School)

Student Mentor: Mariia Usiichuk

Faculty Mentor: Professor Andriy Voronov

2:00 pm

Regioselective Ring-Opening of Cyclic Imides by Li Dufault (Fargo North High School)

Student Mentor: Gizele Celante

Faculty Mentor: Professor Roberto Gomes

2:15 pm

A Fluorescent Approach for Observing the Epithelial to Mesenchymal Transition by Sienna Lee (Moorhead High School)

Student Mentor: Megan Wolf

Faculty Mentor: Professor John Wilkinson

2:30 pm

Coffee Break

2:45 pm

Are linear polarization resistance and potentiodynamic polarization accurate? by Stephanie Matthew (Oak Grove High School)

Student Mentor: Marcel Roy Domalanta

Faculty Mentor: Professor Eugene Caldon

3:00 pm

Chronic Kidney Disease by Duncan McAlister (West Fargo High School)

Student Mentor: Sreyasi Pal

Faculty Mentor: Professor Sijo Mathew

3:15 pm

Nanodrug Delivery Across the Blood Brain Barrier Using Hyperbranched Polyglycerols by Joshua Wilkinson (Fargo South High School)

Student Mentor: Anik Biswas

Faculty Mentor: Professor Mohi Quadir

3:30 pm

Effects of Graphene Nanoplatelet Dispersion on Mechanical and Physical Properties of Solvent-Borne Epoxy by Dannie Yang (Davies High School)

Student Mentor: Sudeep Louis

Faculty Mentor: Professor Xiaoning Qi

3:45 pm

Enantioselective Conjugate Additions by Selena Zhao (Fargo North High School)

Student Mentor: Aleena Raju

Faculty Mentor: Professor Mukund Sibi

4:00 pm

Closing Remarks

Acknowledgements

We would like to thank the Department of Chemistry and Biochemistry for their generous support of the PICNICS program. We would also like to extend our appreciation to all of the student and faculty mentors.